

Got STEM?

NCAGT Conference 2016 Laurie Williams, April Murray, and Stephanie Griffith

Great starting-point pages and sites for inspiration, resources, and how-tos.

STEM Overview:

Six Characteristics of a Great STEM Lesson

http://www.edweek.org/tm/articles/2014/06/17/ctq_jolly_stem.html

How STEM Education Improves Student Learning (Interesting Research at NCSU)

<https://www.ncsu.edu/meridian/summer2011/meyrick/print.html>

General Ideas:

Steve Spangler Science Activities

<http://www.stevespanglerscience.com/>

Mystery Science (Fee, but offers as Introductory Free Membership)

<https://mysteryscience.com/>

Discovery Education (Many free lessons)

<http://www.discoveryeducation.com/teachers/free-lesson-plans/>

Coding:

Scratch Coding program developed at MIT for kids

<https://scratch.mit.edu/>

Code.org/Hour of Code

<https://code.org/>

Teaching kids to code basics

<https://www.edsurge.com/research/guides/teaching-kids-to-code>

Rube Goldberg:

Resources and links to competition level

<https://www.rubegoldberg.com/>

Flight:

Smithsonian Forces of Flight

http://www.smithsonianeducation.org/educators/lesson_plans/how_things_fly/lesson1_main.html

NASA

http://www.nasa.gov/offices/education/programs/national/summer/education_resources/physicalscience_grades4-6/PS_four-forces-flight.html#.VtMOqn0rLDc